

Gas Tight Damper (Shut off)

B-40 Series

Gas Tight Damper - Pneumatic

Type: Gas Tight Damper

Model: For Pneumatic Drive: GTD-GB-40-B-Pn

Blade: Aerofoil Type

Construction: Galvanized Steel (GI) Stainless Steel (SS)

Gas tight dampers are designed such that they can isolatesections of a ventilation system with a very high level of sealing (gas tight). This can be required for safety reasons in certain operational conditions.

GTD-GB-40-B-Pn shut of dampers are designed so that after closure, even with failure of power supply to the actuator, the damper maintains the sealed closure in accordance with KTA 3601 (Guidelines for Nuclear Plant) and A0 A60 (type approved) for Marine, Oil & Gas applications. The compact design and robust actuator mechanisms of these shut-off dampers enable them to be installed in any orientation.



Max Leakage Rating: As per Standards KTA 3601

(0.01 m3/h x m2 at 2000 Pa)

Operational Rating: Actual ratings are size dependent

Air Velocity: 3000 fpm (15 mt/sec) Pressure: 8"water gauge (2KPa). Max . Holding Pressure: 20" W.g (5Kpa) (in closed condition)

Temperature Ratings

Operational Temp : 250°C/482°F for a minimum of 2Hr.

Normal operation : -20°C to +120°C No Fire : -4°F to + 248°F **Tunnel Application** : -20°C to +250°C **Under Fire** for 2 hours minimum

: -4°F to / +482°F for 2 hours minimum

Standard Construction

Frame

14 gauge (2 mm) thick galvanized steel sheet with 2" (50 mm) external flanges.

Blade

Double Skin blades (Aerofoil) of 14 gauge (2 mm) thick roll formed galvanized steel.

Blade Seals

300°C High temp, resistant Silicon rubber blade seals.

Jamb Seals

Stainless Steel.

Bearings

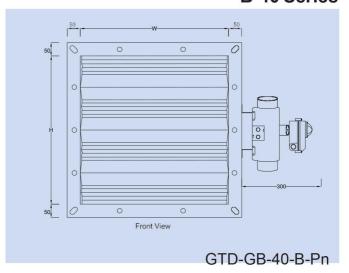
High temperature resistant concealed ball bearings.

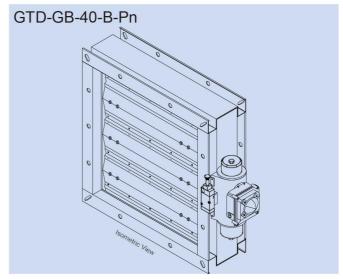
Axle

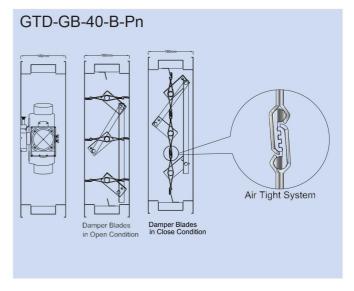
3/4" (19 mm) Diameter axle.

Drive: Operation by Pneumatic actuator. (Model: XL-131) (Operating Pressure 5 bar) and adjustable throttling valve.

Note: * Standard Construction.









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Gas Tight Damper - Pneumatic Pneumatic Actuator Ratings

At 250°/482°F for a minimum of two hours

Pneumatic Actuator Specification

Temperature range

Normal operation : -20°C to +120°C
No Fire : -4°F to + 248°F
Tunnel Application : -20°C to +250°C
Under Fire : -20°C to +250°C
for 2 hours minimum
: -4°F to / +482°F

for 2 hours minimum

Dynamic O-ring seals : Fluorocarbon Rubber 9775

(Viton®).

Static O-ring seals : Nitrile Rubber (Buna-N)
Bearing material : High temperature

composite laminate L10/G

Grease : Christo-lube MCG-130

Viton® dynamic "O"-Ring seals Composite laminate L10/G wear strips and bearings Christo-lube MCG-130 grease						

Model Numbe r	Sprin g Rating		Torque from Sprii	1	3.0 b	ar(g)		ues fro par(g)	1	stroke bar(g)	` 	it given 5 bar(g	_	ting a .0 bar(sure (7.0 ba		8.0 ba	ar(g)
			Start	End	Start	End	Start	End	Star	t End	Sta	rt En	d Sta	ırt E	nd S	Start	End	Start	End
XL131	Se	60	38	23	26	11	42	27	58	43	66	5 51	7:	5 !	59	91	76	107	92
l Num- ber	g Ratin	fro Sp	m rings	40	PSI	50	PSI	60 F	PSI	701	PSI	80	PSI	90	PSI	10	0 PSI	120	PSI
Note:	g	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End
Note: We ¹ ieco	mmeΩd t	ha 333e	va100	(br1 92 ₁ v	re)59ar	u291tu	re157ur	pi389 th	e255x	m487 r	-353-d	t585ue	√452es	/683u	din550ar	v 38ilu	ıstın648tı	o977a	ne844d

safety factors for valve or louvre service conditions or application). Additionally, the valve manufacturer must identify at which position(s) and direction(s) of rotation (Counter Clock Wise or Clock Wise) these maxi-mum requirements occur.

NAMUR solenoid valves

*1/4", 3/2 - 5/2, NAMUR interface, electrically operated spool valves, with static seals, high flow, for mounting on NAMUR interface.

Coils and connectors are to be ordered separately.

Namur solenoid valves Specifications

Fluid: Compressed filtered air with or without lubrication

Pressure range: 1 ÷ 10 bar

Temperature range : -10°C ÷ +60°C

Orifice: 7 mm

Flow: 1.000 NI/min at 6 bar with ΔP1 bar Minimum piloting pressure: 1,5 bar Minimum external air pressure: 1,5 bar

Mounting: In any position

Manual override: Two stable positions

Response time: Energising: De-energising:

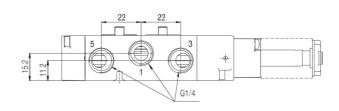
Materials : Body: Aluminium

Heads: Plastic

Spool: Chemical nickel plated aluminium

Distancers: Plastic

Seals: Nitrile rubber (NBR)



Code key

Actuation	Size	Function
NE= NAMUR electrical	1/4"	30 = 3/2 NC 32 = 3/2 solenoid/solenoid *50 = 5/2 solenoid/spring 51 = 5/2 solenoid/solenoid

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Gas Tight Damper - Pneumatic

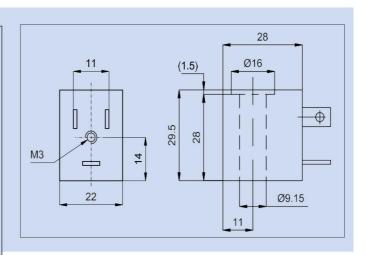
B-40 Series

NAMUR solenoid valve Accessories

Coils

Coils with low electrical consumption conforming to EN 60204.1 and VDE 0580 standards, class F

11 00204.1 and VD	11 00204.1 and VDL 0000 Standards, class 1							
Technical data	Direct current	Alternating current						
Voltage tolerance	± 10%	± 10%						
Co								
Tipo	Colour	Ø Cable						
Standard	Black	PG9						



	Tipo			Colour		Ø Cable		
	Standard			Black		PG9		
	LED 24V			ansparent		PG9		
	LED 110V			ansparent		PG9		
	LED 220V			ansparent		PG9		
	LED + VD R24V			Transparent		PG9		
L	LED + VDR110V		Tr	ansparent		PG9		
LED + VDR 220V				ansparent		PG9		
		- '-				, , , , , , , , , , , , , , , , , , , ,		
	Enclosure Wea			Proof, IP67		Ex d IIC T6, IP66		

1.5 2.8 21 11 11 88 7 8 8 7 Pg 9

		700		
Enclosure	Weather Proof, IP67	Ex d IIC T6, IP66		
Mechanical Switch	2 SPDT	2 SPDT		
Electrical Ratings	15A 125V/250V AC 0.6A 125V DC 0.3A 250V DC	15A 125V/250V AC 0.6A 125V DC 0.3A 250V DC		
Terminal Strip	8 Contacts	8 Contacts		
Temp. Ratings	-20° ~ 85°	-20° ~ 85°		
Conduit Entries	2-PF 1/2"	2-PF3/4"		

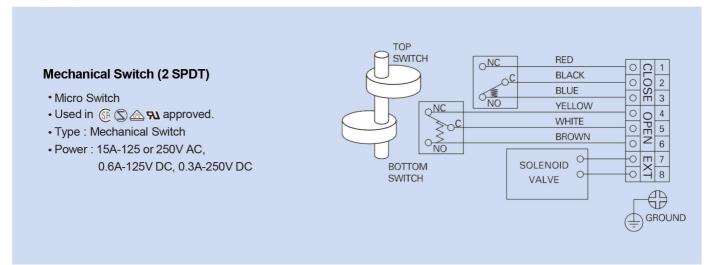


Gas Tight Damper (Shut off)

Gas Tight Damper - Pneumatic Limit Switches

B-40 Series

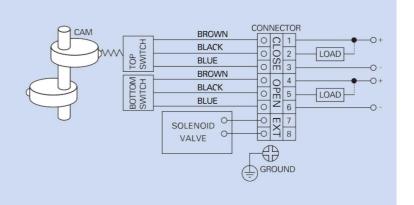
Wiring Diagram



Proximity Switch (Out Put Type: NPN)

- Proximity Switch
- Used in **CE** approved.
- Type : Proximity Switch
- Power Supply : 12~24V DC

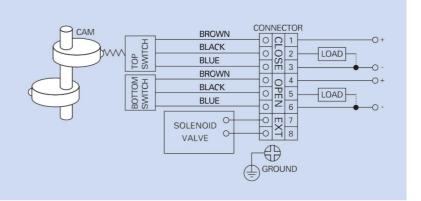
(OPPERATING VOLTAGE: 10~30V DC)



Proximity Switch (Out Put Type: PNP)

- Proximity Switch
- Used in **CE** approved.
- Type : Proximity Switch
- Power Supply: 12~24V DC

(OPPERATING VOLTAGE: 10~30V DC)



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